

L 43986-66 EWP(e)/EWT(m) WH
 ACC NR: AP6030594 (A, N) SOURCE CODE: UR/0413/66/000/016/0081/0081
 INVENTOR: Botvinkin, O. K.; Demichev, S. A.; Naydenov, A. P. 28
 ORG: none B
 TITLE: Glass. Class 32, No. 185023. [announced by Saratov Branch of the State
 Scientific-Research Institute of Glass (Saratovskiy filial Gosudarstvennogo nauchno-
 issledovatel'skogo instituta stekla)]
 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 81
 TOPIC TAGS: heat resistant glass, aluminoborosilicate glass, acid resistant glass
 ABSTRACT: This Author Certificate introduces the following glass formulation (in
 % by wt): 61—64 SiO₂; 3—5 Al₂O₃; 14—16 B₂O₃, 8—10.5 ZrO₂, and 7—8 Na₂O. The
 glass has increased thermal stability and acid resistance. [JK]
 SUB CODE: 11/ SUBM DATE: 10May65/ ATD FRESS: 507/

Card 1/1 ULR

UDC: 666.113.831. 4'623'284'273-31'33

DEMICHEV, V. F. and PROKHOROV, Yu. G.

"Investigation of the Neutron Emission Arising in a Gaseous Discharge with a Current of 160 KA." (Work carried out in 1957); pp. 81-86.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. IV. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

DEMICHEV, V F

Reports presented at the 5th Intl. Conference on Ionization Phenomena in Gases, Zurich, 28 August - 1 September 1961.

a. G A Barilevskaya, A N Andriyev, V F Demichev and V I Vasiliev
"Investigation of a Pulse Discharge in a Helium Cylindrical Gas Sheath"

b. B G Brashnev, M S Maslennikov
"Energy Measurements of Fast Electrons Formed During a Forward Pulse Discharge" Corber

c. A B Karsen, A N Deydel, and G M Malyshev
"On a Method of Spectral-Analytic Investigation of the Hydrogen Discharge Chamber Wall Interaction"

d. V F Mitrova, M N Bobylev
"On the Kinetics of Mass Streaming Under the Cathode Arc and Detonation Wave Conditions"

e. S G Alkhayev, R A Isakovskiy, A V Kozlov, G G Koshlov, G I Kostomarov
"An Investigation of Plasma Structure in the Helium Field"

f. V S Koshlov, Yu V Kuvshinov, V N Terebilenko, S S Terebilenko
"Dynamical Current Cor"

g. M N Sobolev
"A Spectroscopically Studied State of Gases Following the Detonation Wave"

h. A V Il'in, Ye S Solov'yev, V V Ivanovskiy
"Molecular Hydrogen Ionization by Gas Hydrogen Atoms"

i. I P Fink, G N Goussinov
"Ionization of Gases Induced by Multi-charged Ions"

j. P M Kuvshinov, I N Kuvshinov
"The Source for Molecular Hydrogen Ion Formation at the Cathode"

k. A I Bratschenko, V V Kuvshinov, I P Kuvshinov, M N Kuvshinov
"Injection of an Ionic Beam into the Gaseous Plasma"

l. V Ye Yurashov
"On Directed Radiation of Particles from a Cathode Single Cr. An
Emission by Substant with Ion"

33

ACCESSION NR: AT4025319

S/0000/63/000/000/0274/0282

AUTHORS: Prokhorov, Yu. G.; Demichev, V. F.; Matyukhin, V. D.

TITLE: Measurement of time variation of plasma energy

SOURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 274-282

TOPIC TAGS: plasma research, plasmoid, plasma source, plasma temperature, discharge plasma, plasma heating

ABSTRACT: A system, called "thermal probe," has been developed to measure the time variation of plasma energy. It consists of a platinum foil 6 microns thick, heated electrically to 1,000--1500°, the incandescence of which is registered by a photomultiplier with maximum sensitivity in the red part of the spectrum (near 7,000 Å). The spectral sensitivity of the foil-plus-photomultiplier system, with the foil electrically heated, is sufficient for the registration of

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ACCESSION NR: AT4025319

a slight change in the foil temperature such as is produced by the heating of the plasma. The instrument is calibrated by discharging a capacitor through the foil. The thermal probe was used to measure the plasma energy in slow (millisecond) and fast (microsecond) processes, as well as to estimate the efficiency of thermal insulation of the plasma column in a toroidal system with longitudinal magnetic field ("Tokamak"). It was also used to measure the energy of fast plasmoids obtained with the aid of a coaxial plasma gun. In the latter case such a measurement is preferable because the usual calorimetric method determines only the integral energy of the plasmoids occurring in one discharge, without giving the energy in individual plasmoids. The use of the thermal probe in conjunction with other methods (electric probe, millimeter waves transmitted through the plasma, etc.) makes it possible to determine a large number of parameters of plasmoids produced in a single discharge. Another feature of the apparatus is that there is no direct electric connection between the plasma and the recording apparatus, which can

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ACCESSION NR: AT4025319

be located away from the plasma. The thermal probe can also be used in chambers with high initial vacuum. Orig. art. has: 6 figures, 3 formulas, and 1 table.

ASSOCIATION: None

SUBMITTED: 19Oct63

DATE ACQ: 16Apr64

ENCL: 03

SUB CODE: ME

NR REF SOV: 000

OTHER: 000

Card 3/3

DEMICHEV, V.F.; MATYUKHIN, V.D.

Studying the properties of fast moving plasma clots. Dokl. AN SSSR
150 no.2:279-282 My '63. (MIRA 16:5)

1. Predstavleno akademikom L.A.Artsimovichev.
(Plasma (Ionized gases))

L 10178-63

EWI(1)/EDS/IEC(b)-2/ES(w)-2---AFFTC/

ASD/ESD-3/AFWL/SSD--Pab-4--IJP(C)

ACCESSION NR: AP3000744

S/0020/63/150/003/0523/0526

AUTHOR: Demichev, V. F.; Strunnikov, V. M.

TITLE: Interaction of high-density plasmoids with magnetic fields

SOURCE: AN SSSR. Doklady, v. 150, no. 3, 1963, 523-526

TOPIC TAGS: confinement of hot plasma, injection of plasma, plasma-magnetic field, interaction

ABSTRACT: The interaction of a plasma jet with a magnetic field and the collision of such a jet with a wall produced by a strong transverse magnetic field have been investigated. The penetration velocity of the plasma jet through a magnetic barrier was measured by the spectroscopic method and with magnetic sondes. The total energy penetrating through the barrier and the radial distribution of energy density in the jet were determined for different values of H sub 0 by the calorimetric method. The measurements showed that at H = 18 koe only 30% of the initial energy penetrates through the barrier, as a result of the deceleration of particles entering the increasing field and the

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ACCESSION NR: AP3000744

0

reflection of a portion of the plasma jet from the barrier. Experiments showed that the barrier transparency depends on H and its gradient with respect to distance. At equal H sub max values, the barrier with the higher gradient is less transparent. The radial distribution of energy density differs in that for a lower gradient there is a higher energy density near the axis. The distribution of ion density n sub 1 along the axis of the magnetic field shows that at $H = 6$ koe the concentration of ions in the jet increases more than 10 times in comparison to the concentration at $H = 0$. At $H = 24$ koe this ratio increases to about 30 (n sub 1 is approximately equal to $6 \cdot 10^{16} \text{ cm}^{-3}$). The condition for deep penetration of the plasma jet into the magnetic field is $a^2 \text{ sub } 0 / L^2 \text{ sup } 2 \times H^2 \text{ sup } 2 / 4 \pi^2 \rho \text{ sub } 0 v^2 \text{ sup } 2 \text{ sub } 0$ is less than 1, where a sub 0 is the initial radius of the jet, L is the length of the growing-field region, and ρ sub 0 is the initial density of the plasma. Under the conditions of this particular experiment the inequality reduces to the following:
 $H^2 \text{ sup } 2 \text{ sub } \text{max} / 4 \pi^2 \rho \text{ sub } 0 v^2 \text{ sup } 2 \text{ sub } 0$ is less than 50. However, penetration was observed even at a ratio of approximately 150--200. This deviation is explained by the fact that in obtaining the inequality optimum conditions were assumed; in particular, finite conductivity was not taken into

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ACCESSION NR: AP3000744

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account. Investigations of the collision of a plasma jet with a magnetic wall produced by a transverse field revealed that even at very small values for the ratio, plasma can penetrate through the field, even though theoretically a total reflection of plasma from the field should occur. "In conclusion the authors express their sincere gratitude to Academician L. A. Artsimovich, Doctor of Physics and Mathematics A. M. Andrianov, and O. A. Fazilevskaya for their many valuable suggestions during the conduct of the experiments and consideration of the results." Orig. art. has: 4 figures and 3 formulas.

ASSOCIATION: none

SUBMITTED: 30Oct62 DATE ACQ: 21Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 003

OTHER: 005

sf/are
Card 3/3

I 40698-65 EPF(n)-2/EPA(w)-2/ZIT(1)/ZIG(n) P1-4/Po-4/Pz-6/Pab-10 IJP(c) AT/

ACCESSION NR: AT5006202

8/3136/64/000/587/0001/0028

46
42
8+1

AUTHOR: Demichev, V. F.

TITLE: Study of the properties of fast plasmoids 21

SOURCE: Moscow. Institut atomnoy energii. Doklady, no. 587, 1964. Izucheniye svoystv bystro dvizhuushchikhsya plazmennyykh sputkov; otchet, 1-28

TOPIC TAGS: plasmoid, plasma density, plasma velocity, plasma momentum, plasma particle, plasma energy, injection

ABSTRACT: The article deals with experiments on the properties (velocity, energy, and momentum) of plasmoids produced in an electrodynamic injector of the coaxial type. The injector was of the type described by D. Marshall (Physics of Fluids v. 3, 134, 1960), 24 cm long, with inside and outside diameters 32 and 75 mm, respectively. The injector construction and operation are described. The plasmoid longitudinal velocity was measured by several methods (magnetic probe, measurement of diamagnetic properties of the plasma, photomultipliers). The energy was measured by a calorimetric method. The integral momentum of the plasmoid was determined by measuring the initial speed of a ballistic pendulum (deep cylindrical

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L 10420-65

ACCESSION NR: AT5006202

3

vessel moving together with the calorimeter). The composition of the plasma was determined by a spectroscopic method. The energy loss due to the interaction between the plasmoids and the metallic surfaces of the apparatus was estimated by a calorimetric method. When working with hydrogen and deuterium, the attainable plasma speed could be varied between 2×10^6 and 8×10^7 cm/sec by varying the initial voltage or pressure of the injector or by varying the delay time. As a rule, two plasmoids were produced in each injection, the first several times faster than the second. In some cases the first plasmoid split into two, the front section carrying an appreciable fraction of the energy. The maximum plasmoid energy produced in one discharge exceeded 2000 J, and the maximum attainable momentum reached 2000 dyne-sec. The plasmoid dimensions could reach 20×100 cm, and the density could be varied from 10^{13} to 5×10^{15} cm⁻³. The number of particles in the plasmoid could reach 2×10^{19} and their conductivity reached 10^{14} cgs esu. Not all the energy was transferred to the walls in the case of plasma-metal interaction, energy reflection similar to a shock wave taking place, reaching 75% of the incident energy under some conditions. "I thank L. A. Artsimovich and A. M. Andrianov for continuous interest in the work and for numerous discussions of the results, and V. D. Matyukhin for taking part in some of the experiments." Orig. art. has: 12 figures, 2 formulas, and 2 tables.

Card 2/3

L 110698-65

ACCESSION NR: AT5006202

ASSOCIATION: Institut atomnyy energii im. I. V. Kurchatova (Institute of Atomic Energy)

SUBMITTED: 00

INCL: 00

SUB CODE: ME

NR REF SOV: 004

OTHER: 002

Card 3/3/1145

L 25965-66 EWT(1)/ETC(f)/EPF(n)-2/ENG(m) IJP(c) AT

ACC NR: AP5026436

SOURCE CODE: UR/0089/65/019/004/0329/0335

AUTHOR: Demichev, V. F.; Matyukhin, V. D.; Nikologorskiy, A. V.;
Strunnikov, V. M.

52
53
B

ORG: None

TITLE: Plasma bent in curved magnetic field

SOURCE: Atomnaya energiya, v. 19, no. 4, 1965, 329-335

TOPIC TAGS: plasma electromagnetics, plasma dynamics, plasma density,
moving plasma, plasma magnetic field, plasma velocity

ABSTRACT: One of the useful techniques for purifying plasma bursts is to use a curved magnetic field for removal of impurities. After a brief discussion of methods employed, the authors describe their experiments with a plasma moving around a 90° bend in a curved quadrupole field formed by a system of four parallel conductors. This device was proposed to the authors by L. A. Artsimovich. Its arrangement is schematically shown on Fig. 1 (card 2/3). Two 30 cm long guide fields are interconnected by a bent field with a curvature radius $R = 30$ cm. The magnetic system is fed from the capacitor bank of 1500 microfarads. The plasma was produced by a coaxial electrodynamic gun. The greatest field intensity in the slit between conductors was 6 kilooersted. The maximum front velocity attained a rate of 10^7 cm/sec while the velocity

2

Card 1/3

UDV: 533.9

L 25965-66

ACC NR: AP5026436

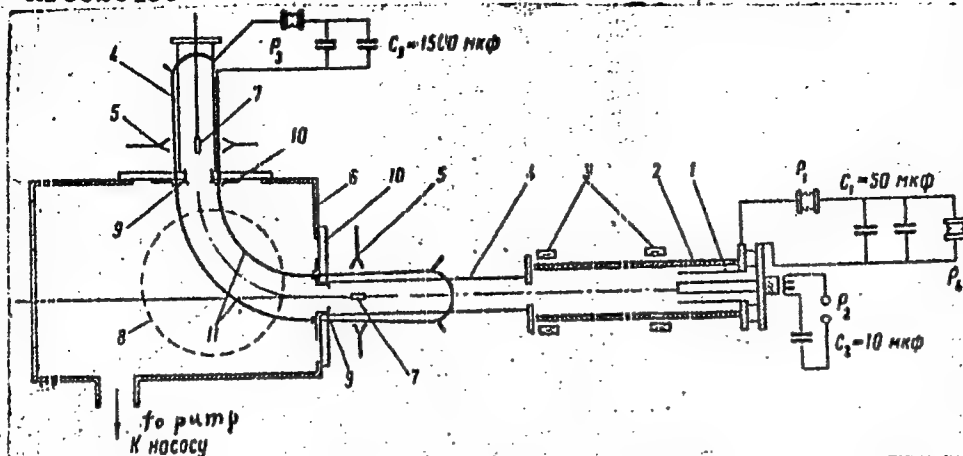


Fig. 1. Curved magnetic field device

1-plasma gun; 2-porcelain cylinder ($d = 120$ mm); 3-magnetic field coils; 4-quartz cylinder ($d = 90$ mm); 5-SHF antenna; 6-vacuum chamber ($50 \times 50 \times 90$ cm); 7-probes; 8-viewing window; 9-diaphragms (0.1 mm stainless steel, $d = 60$ mm); 10-glass insulators; 11-conductors.

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ACC NR: AP5026436.

2

of central jet was 8×10^6 cm/sec at the maximum density of about 2×10^{15} cm⁻³. The velocity of the most compressed part of the plasma at leaving the magnetic system, was 7×10^6 cm/sec. In spite of losses (through slits) the concentration of ions after the bend reached 2×10^{14} cm⁻³. The total number of particles was about 10^{17} . The results of the experiments proved that the neutral gas was completely eliminated and a pure ionized plasma was practically obtained. An optimal value for the magnetic field intensity H of about 3 koe was reached. The variations of numbers of ions, of their concentration and distribution as well as of the plasma densities were illustrated in 7 graphs for various values of H. The authors express their gratitude to L. A. Artsimovich for his initial suggestion; continuous assistance and discussion of results. They thank also A. M. Andrianov for his continuous interest shown in their work. Orig. art. has: 2 diagrams, 7 graphs and 1 formula.

SUB CODE: 20 / SUBM DATE: 20Feb65 / ORIG REF: 003 / OTH REF: 004

Card 3/3 FW

DEMICHEVA, A. P.

Rudenko, Ye. I. and Demicheva, A. P. - "On the question of the ability of the Tinak mud lake to prolong life", Trudy Astrakh. gos. med. in-ta, Vol. IX, 1949, p. 35-40.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

DEMICHEVA, D.M.

D'YAKONOVA, A., tkachikha Shuyeskoj Ob'yedinennoj fabriki; STOLBUNOV, S.N.,
inzhener, konsul'tant; DEMICHEVA, D., redaktor; MALEK, Z., tekhnicheskij redaktor.

[School at the loom] Shkola u stanka, [Moskva] Izd-vo VTsSPS Prof-
izdat, 1953. 57 p. (MIRA 7:9)
(Weaving)

OVCHAROVA, A.; DROZHSHINA, K.; KABANOV, N.Ya., konsul'tant; ~~DEMICHE-~~
~~VA~~, D., redaktor; MALEK, Z., tekhnicheskii redaktor.

[A high aim] Bol'shaia tsel'. Moskva, Profizdat, 1953. 62 p.

1. Nachal'nik otдела truda i zarplaty 1-go GPZ im.L.M.Kagano-
vicha(for Kabanov) 2. Rabotnitsa 1-go Gosudarstvennogo pod-
shipnikovogo zavoda im. L.M.Kaganovicha (for Ovcharova,Drozshina)
(Efficiency, Industrial) (Bearings(Machinery)) (MLRA 7:8)

IVANOVA, Yekaterina Ivanova; ~~DEMICHEVA~~, D.M., redaktor; KIRSANOVA, N.A.,
tekhnicheskiiy redaktor

[In the name of a great purpose] Vo imia bol'shoi tseli. [Moskva]
Izd-vo VTsSPS Profizdat, 1954. 55 p. (MLRA 8:7)
(Textile industry)

PAVLOV, A.; ~~DEMLICHENKO, D.~~ redaktor; RAKOV, S.I., tekhnicheskii redaktor.

[Textiles made of staple fiber on automatic looms.] Shtapel'-nye tkani na avtomatakh. [Moskva] Izd-vo VTsSPS Profizdat, 1954.
7lp. (MLRA 8:3)
(Textile industry)

LEVCHENKO, Konstantin Petrovich; DEMICHEVA, D.M., redaktor; RAKOV, S.I.
tekhnicheskii redaktor

[Every minute is counted] Schet idet na minuty. [Moskva] Izd-vo
VTsSPS Profizdat, 1955. 41 p. (MLRA 8:10)
(Steel industry)

MEDVEDEV, Ivan Aleksandrovich; DEMICHEVA, D.M., redaktor; KIRSANOVA, N.A.,
tekhnicheskii redaktor

[Twenty five years in a machine shop] 25 let u stanka. [Moskva] Izd-
vo VTsSPS profizdat, 1955. 69 p. (MIRA 9:1)

1. Shlifovshchik Moskovskogo instrumental'nogo zavoda (for Medvedev)
(Machin-shop practice)

ZVEREV, Ivan Andreyevich, stregal'shchik; MOKROUSOV, Ivan Ivanovich, rastechnik; DEMICHEVA, D.M., redakter; KIRSAKOVA, N.A., tekhnicheskiy redakter. ~~www.cia.gov~~

[Work practice with planing and boring machines] Opyt raboty na stregal'nom i rastechnom stankakh. Moskva, Izd-vo VTsSPS Profizdat, 1955. 95 p. (MIRA 9:4)

1. Voronezhskiy mashinostroitel'nyy zavod imeni Kalinina (for Zverev, Mokrousov).

(Planing machines)

(Drilling and boring machinery)

DENICHEVA, L.I.

Vysokie urozhai arbuzov; opyt kolkhoza "Bor'ba za urozhai" Berezhovskogo raiona Staligr. oblasti (High watermelon yields; experience of the "Bor'ba za urozhai" Collective Farm, Berezhovskaya District, Stalingrad Province). Moskva, Selkhozgiz, 1954. 13 p.

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

MR. A. DEMICHEVA

22(9)

PLANS I BOOKS FOR DISCUSSION

2008/2009

Indefinite and open. Indefinitely filed, open

Базисні ароматизовані поліаміди *polyamide aromatic base* [ароматизовані поліаміди III ряду; ароматичні органічні композиції, каталізовані метилом і метилом продуктів; (рецепти для базисної ароматизованої) Базис, Івано-Франківськ, 1999. 376 с. 2,000 копійок вкрито. Екстракт ароматизованої]

Editorial Board: R.D. Choudhary (Newy, IN), *Doctor of Chemical Sciences*; S.B. Gollapudi, *Doctor of Chemical Sciences*; Ya. B. Gerasimov, *Doctor of Technical Sciences*; V.V. Purov, *Candidate of Technical Sciences*; and V.P. Potchepnevskiy, *Candidate of Chemical Sciences*. **Ed. or Publishing House:** I.I. Kharyuzhnik, **Ed.:** I.P. Polubnyak.

FUNCTION: This book is intended for chemists, chemical engineers, and scientists specializing in the chemistry of petroleum.

COPYRIGHT: This book is a collection of papers presented at the Third Decennial Session on the Chemistry of Organic Sulfoxide and Sulfonium Compounds Coordinated to Platinum and Palladium Products. The scientific session was held in Uppsala, Sweden, 1976. The book consists of six sections: 1) Synthesis, characterization, and analysis of organic sulfur compounds; 2) Separation and coordination of organic sulfur compounds coordinated to platinum and palladium complexes; 3) Transformation of organic sulfur compounds by thermal catalysis; 4) Corrective properties of metal-organic sulfur compounds for thermal catalysis and petroleum products; 5) Uses of organic sulfur compounds and hydrogen sulfide; 6) Physical properties of organic sulfur compounds. The previous titles are mentioned. There are 310 references of which 170 are books, 118 English, 5 French, 12 German, and 1 Greek.

FIELD OF COMPETENCE

FROM THE NATIONAL BOARD

Introduction

Part 2/20

Library of Polymer Originals Compounds (Cont.)

NOV/2013

Hydrocarbon Fractions for the Removal of Silver Compounds

125

Alkyl Compounds and the Rate of Degradation of the Methyl Fraction in Soils

250

PART III. HOMOCATALYTIC TRANSFORMATIONS OF ISOALTS WITH CRYSTALLINITY

Yakovlev, B.V.; S.P. Buzova. The products of base reactions of water-soluble compounds

257

SAFAROV, I. S., and Dr. MEYERSON, O. D. Cellulose
of Allyl Aryl Sulfoxides and Allyl Aryl Sulfones

16

Kiselevskaya, I. E., Z. A. Danilova. Synthesis and Transformations of Sulfur Derivatives of Tetralin in the Presence of an Aluminosilicate Catalyst.

17

Case 6/10

MATVEYEV, A.A.; KOTLYAROVA, C.S.; LAVRENT'YEVA, A.V.; AVDYUNIN, N.I.;
KRASITSKAYA, A.I.; DEMICHEVA, M.A.;

Quality of students' knowledge in chemistry. Khim. v shkole 17 no.2:
91-94 Mr-Apr '62. (MIRA 15:3)

(Chemistry--Study and teaching)

DZHAVROVA, I.K.; ANTONKIN, E.; BRYNZOVA, Z.; DEMICHEVA, N.; ZERENKOVA, L.;
TARASOVA, V.; YANKEVICH, G.

Comparative evaluation of various media for determining the toxigenic
properties of diphtheria bacilli in vitro. Lab. delo 6 no.4:48 J1-
Ag '60. (MIRA 13:12)

1. Kafedra mikrobiologii Smolenskogo meditsinskogo instituta.
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA) (DIPHTHERIA)

DEMICHEVA, O. D.

FD 171

USSR/Chemistry - Soda Production

Card 1/1

Author : Legenchenko, I. A. Cand Chem Sci, and Demicheva, O. D.

Title : Experimental work on the development of a process for the purification of the brine at a soda plant.

Periodical : Khim. prom. 3, 31-33 (159-161), April-May 1954

Abstract : Describes development and pilot-plant work on the purification of sodium chloride solutions with calcium hydroxide and soda. Illustrated by 1 figure. Data are listed in 4 tables. 1 USSR reference is given.

DEMICHEVA, V.I.

Registration and structure of skin diseases in the Crimea
from 1956 to 1961. Vest. dermat. i ven. 37 no.2:66-70 P'63.
(MIRA 16:10)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. -
dotsent N.I.Metlitskiy) Krymskogo meditsinskogo instituta
i Oblastnogo kozhno-venerologicheskogo dispansera (glavnyy
vrach M.G.Kochetov).

*

L. 32965-66 EWP(j)/EWT(m)/T IJP(c) RM

ACC NR: AP6017603

(A)

SOURCE CODE: UR/0183/66/000/001/0029/0031

AUTHOR: Levin, B. Ya.; Savitskiy, A. V.; Demicheva, V. P.

ORG: Physicotechnical Institute im. A. F. Ioffe AN SSSR (Fiziko-tekhnicheskii institut AN UkrSSR)

TITLE: Effect of the degree of stretching on the strength of capron fibers¹⁵

SOURCE: Khimicheskiye volokna, no. 1, 1966, 29-31

TOPIC TAGS: synthetic fiber, polyamide, tensile strength, nylon

ABSTRACT: The authors study the effect of stretching conditions on the strength of polyamide fibers at liquid nitrogen temperatures.¹⁵ The specimens had minimum initial orientation evaluated from measurements of birefringence. The experimental data show a linear relationship between strength and degree of stretching. Elongation and molecular orientation increase when the stretching temperature is raised. The experimental data prove conclusively that the strength of capron fiber is a function of the degree of stretching alone and is independent of the temperature and the rate at which the orientation stretching is done. The increase in strength properties of the capron takes place in such a way that stretching does not change the breaking load at -196°C reduced to the cross section of the original fiber. This same relationship is observed in specimens of polyethylene and rubber when they are stretched to 400-700%. If the

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UDC: 677.494.675

L 32965-66

ACC NR: AP6017603

mechanism responsible for this phenomenon were determined, it could explain the process of strength increase in polymer fibers. Orig. art. has: 3 figures.

SUB CODE: 11/ SUBM DATE: 17Nov64/ ORIG REF: 006/ OTH REF: 003

Card 2/2

DEMICHEVA, YE. V.

DEMICHEVA E. V.

~~Medical Institute of the USSR Academy of Sciences~~
Znacheniye proby s amital-natriem dlia razgranicheniya razli-
chnykh stadii gipertonicheskoi bolezni. /Significance of the
test with amital-sodium for the determination of various
stages of hypertension/ Klin. med., Moskva 21:6 June 51
p. 46-9.

1. Of the Faculty Therapeutic Clinic (Supervisor--Honored
Worker in Science Prof. G. F. Lang, Active Member of the
Academy of Medical Sciences USSR, deceased; Acting Direc-
tor of Clinic--Prof. T. S. Istomanova), First Leningrad
Medical Institute imeni I. P. Pavlov, Leningrad.

DEMICHOV, D.A.

Recent developments in the technology of major track repairs. Put' 1
put. khoz. no.9:16-17 S '58. (MIRA 11:9)

1. Nachal'nik normativnoy stantsii tresta "Rekput'."
(Railroads--Track)

DEMICHOWICZ, J.

POL.

2148

541.155 : 532.72

Baranowski B., Demichowicz J. Electrothermodynamic Diffusion of Aqueous Electrolyte Solutions.

"Elektrotermodynamika w wodnych roztworach elektrolitów". Roczniki Chemii (PAN), No. 4, 1953, pp. 49-504, 16 figs.

The authors modified the thermographical method of Clausius by employing different methods of obtaining the temperature gradient.

OVER

AD
jan

Investigation of the $\text{H}_2\text{O} + \text{CuSO}_4$ system gave the following results: —

- 1) for a small external section of the capillary tube (~ 1 mm), the ratio of concentration in the lower and upper containers, n_p/n_0 , increased first linearly, and after a time became practically constant; 2) the ratio n_p/n_0 rose with the increase of the power of the electric current for the same period of thermodiffusion and initial concentration of CuSO_4 ;
- 3) for the same power and period of thermodiffusion, the ratio of concentrations was practically invariable within the limits of 0.2 — 1 N of the original concentrations, while at lower concentrations it decreased rapidly. For the $\text{CuSO}_4 - \text{H}_2\text{O} - \text{C}_2\text{H}_5\text{OH}$ system, the following results were obtained: — 1) the ratio of concentrations for CuSO_4 was higher than for $\text{C}_2\text{H}_5\text{OH}$; 2) as the power of the current increased, so did the ratio of concentrations for CuSO_4 , whereas in the case of $\text{C}_2\text{H}_5\text{OH}$ this increase ceased at a certain point of power; 3) the addition of $\text{C}_2\text{H}_5\text{OH}$ reduced the ratio of concentrations of CuSO_4 ; within the initial concentration range, 25—50 vol.% of $\text{C}_2\text{H}_5\text{OH}$ and 0.1 N CuSO_4 , the decrease in the concentration ratio was rapid; 4) the addition of equal quantities of $\text{C}_2\text{H}_5\text{OH}$ (10 vol.%) to different initial concentrations of CuSO_4 produced a marked decrease in the ratio of CuSO_4 concentrations below 0.2 N,

Demichowicz, J.

POL. 2

Electrothermal diffusion method of determining the Soret coefficients in aqueous solutions of copper sulfate. B. Baranowski and J. Demichowicz (Jagellonian Univ., Cracow, Poland). *Bull. Acad. Polon. Sci., Classe III, 2*, 435-8 (1954) (in English).—The thermogravitational method was modified for liquid electrolyte solns. in the following manner: a thin-walled cylindrical glass capillary tube was used for the two walls which must be maintained at different temps. Two electrodes were fitted one at the top and the other at the bottom, to which a high alternating voltage was applied. The heat generated inside the tube produced a horizontal temp. gradient with which was assoc. the thermal diffusion flux. This device, which had no hot wall and which made possible the application of the thermal diffusion process in the presence of an external elec. field, proved useful in testing binary and ternary mixts. The Soret factors were found for CuSO_4 solns. and it was shown that Soret's coeffs. did not depend on power input, nor on the concn: ranging from 0.1 to 1N. A slight increase was noticeable at about 0.5N, while at 0.05N a decline was noticed. Compared to other methods, the values of the coeffs. were smaller by the electrothermal method. This may be due to the elec. field, and to the likelihood of occurrence of "current-diffusivity effect." Phenomenological theory of the electrothermal diffusion method in fluids. B. Baranowski. *Ibid.* 439-42.—Equations are developed for the temp. gradient and max. temp. difference in the capillary tube, the velocity of the convection current in the capillary tube, the concn. changes in the containers, and the Soret coeffs. Bernard Rubin.

DEMILCHOWICZ - PIGONOWA JADWIGA

Electrothermodiffusion in aqueous solutions of electrolytes. Jadwiga Demilchowicz-Pigonowa and Jozef Baranowski. *Prace Komisji Fizykochemii, Warszawa, 1955, 819-22* (German summary 842-0) (Pub. 1957); cf. preceding abstr. — The Soret coeff. in aq. solns. of electrolytes can be detd. by the "electrothermodiffusion method." The same method can be used also for other liquids that are good conductors of elec. current, e.g. molten salts or metal alloys. The electrothermodiffusion method has the advantage of simplicity in accurate detn. of the internal radius of a capillary by weighing a Hg rod of a known length; this eliminates the chief inaccuracy of the thermogravimetric method. Detn. of the Soret coeff. by the electrothermodiffusion method requires knowledge of the app. parameters, phenomenological coeffs. of the liquids under investigation, detn. of the coeff. π split at the known voltage that is applied to the capillary; the amperage of the current, and the time required for the split. A thin-walled glass capillary with each end widened to a reservoir of 1 ml. capacity was used. The capillary and the widened parts were surrounded by a cooling-water jacket. Each widened part was provided with a reversible electrode. The app. was vertical. After the app. was filled with the soln. of electrolyte, the electrodes were connected to an a.c. source of several kv. The liquid in the capillary became heated. Outside cooling by water caused a horizontal temp. gradient as great as 300°/cm. that set up a horizontal thermodiffusion current and, because expansion changed the d. and concn. of the soln., a vertical convection current. The latter current conveyed the component enriched at the wall of the capillary to the lower reservoir. This method of electrothermal diffusion differs from the conventional thermogravimetric method in that: (1) there is no hot wall, because the highest temp. is along the axis of the capillary, (2) thermodiffusion takes place in the presence of an external elec. field. The new method was used to det. the Soret coeff. of the following aq. solns.: CuSO_4 , AgNO_3 , a mixt. of AgNO_3 and NH_4NO_3 , KCl , NaCl , HCl . For CuSO_4 solns. this coeff. was: for 1N soln. 9.4, for 0.75N 9.1, for 0.5N 10.4, for 0.1N 10.5, and for 0.05N 7.2/degree; all the above figures for the Soret coeff. must be divided by 1000. Coeffs. for other solns. are not given. 44 references. P. J. Hendel

DEMICHOWICZ, J. ; BARANOWSKI, B.,

J. DEMICHOWICZ, "Thermal diffusion in the liquid phase." Chemical News, Poland
No. 7-8, July-August 1955

DEWICHOVICZ, J.

Baranowski, B. Determination of Soret coefficients of aqueous CuSO_4 solutions by the electrothermal diffusion method. p. 603.

ROZMINI CHEM, Warszawa, Vol. 29, no. 2/3, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

Demichowicz, Tadeusz

*Thermal diffusion in the liquid phase. Marian Marczon-
ski and Jadwiga Demichowicz (Univ. Kraków, Poland).
Wiadomości Chem. 9, 879-883 (1955).—A review with 120
references.*

Phys

2

600

Publ

✓ Extension of thermogravimetric analysis—Phenol method. (Phenol Acid. Sol. Warsaw, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635,

Love you

POLAND / Physical Chemistry. Nuclear Chemistry.
Isotopes.

B-7

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76594.

Author : Baranowski, B. and Demichowicz-Pigoniowa, J.
Inst : Not given.
Title : A Phenomenological Theory of the Electrothermal
Diffusion Method.

Orig Pub: Roczniki Chem, 31, No 3, 927-935 (1957) (in
Polish with Russian and English summaries).

Abstract: The theory is developed on the basis of the con-
sideration of the effect of concentration changes
on the temperature gradient in the capillary.
The results obtained have been used in a new de-
termination of the Soret coefficient for aqueous
Cu sulfato solutions.

Card 1/1

COUNTRY : Poland B-11
 CATEGORY :
 ABS. JOUR. : IZKhim., No. 1959, No. 85441
 AUTHOR : Demichowicz-Pigoniowa, J.
 INST. :
 TITLE : Viscosity Coefficients of Aqueous Solutions
 of CdSO_4 .

ORIG. PUB. : Roczn. chem., 1959, 33, No 1, 203-204

ABSTRACT : By means of a precision viscosimeter, determinations were made, at 25°, of viscosity coefficient η of aqueous solutions of CdSO_4 of concentration from 0 to 5 N. On increase of concentration of the solution η increases from 0.8946 to 4.638 c-poise. The values of η obtained for 0.125 - 1.0 N solutions of CdSO_4 are higher than the previously published data (Wagner I., Z. phys. Chem., 1940, 5, 31) by less than 0.01 c-poise. -- B. Kaylan.

CARD:

DEMICHOWICZ-PIGONTOWA, J.

Temperature dependence of the Soret coefficient for aqueous cadmium sulfate solutions. Bul chim PAN 13 no.1:59-62 '65.

1. Department of Physical Chemistry of Wroclaw Technical University. Submitted November 9, 1964.

DEMICHOWICZ-PIGONIOWA, Jadwiga

Electrothermodiffusion in aqueous solutions of CdSO_4 . *Rocz chemii*
34 no.3/4:1185-1187 '60. (EEAI 10:3)

1. Katedra Chemii Fizycznej Politechniki, Wrocław
(Cadmium sulfate) (Solutions) (Water)

DEMICHOWICZ-PIGONIOWA, Jadwiga

Temperature dependence of viscosity of aqueous solutions of cadmium sulfate. Roczniki chemii 36 no.11:1677-1681 '62.

1. Department of Physical Chemistry, Institute of Technology, Wroclaw.

DEMICHOWICZ-PIGONIOWA, Jadwiga, dr inz., adiunkt

Temperature coefficient of the specific electric conductance of aqueous solutions of cadmium sulfate. Chemia Wroclaw no.10: 93-97 '64.

1. Department of Physical Chemistry of Wroclaw Technical University. Submitted March 1963.

DEMICH-STYCZYNSKA, Bogumila

A tentative morphologic characteristic of the parasite fly. Acta
parasit 8 no.1/7:115-126 '60. (EEAI 9:10)

1. Department of Zoology, University of Warszawa. Director: Prof
Dr. Zdzislaw Raabe. Author's address: Panstwowy Zaklad Higieny,
Zaklad D.D.D. Warszawa, Chocimska 24.
(Flies) (Diptera) (Parasites)

USSR/General Problems of Pathology - Immunity

U-1

Abs Jour : Ref Zhur - Biol., No. 18, 1958, 84711

Author : ~~Danilov, V. V.~~

Institute : No institute is given

Title : The Influence of Total-Body Irradiation with X-rays
on the Phagocytic Functions of the Granulocytes

Orig Pub : Tr. Vses. konferentsii po med. radiol. Eksper. med.
radiol. Moscow, Medgiz, 1957, 178-180

Abstract : Within three to six hours following irradiation of
guinea pigs with 200 r, a reduction in the phagocytic
activity (PA, or percentage of active phagocytes
among the total number of granulocytes counted) of
1.8 times was noted, and a reduction in the phagocytic
intensity (PI, or the average of bacteria phagocytosed
per leukocyte) of two times was noted. The number of
granulocytes (G) increased, while that of lymphocytes
(L) decreased. Within 12-24 hours after irradiation
there was normalization of the phagocytic function of

Card 1/2

USSR/General Problems of Pathology - Immunity

DEMIDAS, V.V.

Possibility for increasing the power of a β -ray applicator by
using a lead screen reflector. Vest.rent. 1 rad. 33 no.2:63-66
Mr-4p '58. (MIRA 11:6)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. Ye.D.Dubovyy)
Odesskogo meditsinskogo instituta imeni N.I.Pirogova (dir. - prof.
I.Ya.Deyneka)

(RADIOTHERAPY, appar. & instruments
lead screen reflector for increasing efficiency of
 β -ray applicator (Rus))

DEMIDAS, V.V.; IRZHEVSKAYA, G.I.; IZEL'CHITSKIY, V.N., kand.med.nauk

Spontaneous pneumothorax in infants during the first months
of life. *Pediatrics* 38 no.11:70-73 N '60. (MIRA 14:2)

1. Iz kafedry rentgenologii i radiologii (zav. - prof.Ye.D.
Dubovyy) kliniki detskikh bolezney lechebnogo fakul'teta (zav. -
detsent V.P.Chrenyuk) Odeskogo meditsinskogo instituta (direktor -
prof.I.Ia.Deyneka).

(PNEUMOTHORAX in inf. & child)
(INFANT NEWBORN diseases)

DEMIDAS, V. V. Cand Med Sci -- "Observations of the phagocytic function of
leucocytes in general X-ray irradiation of the organism.(Experimental study)."
Odessa, 1960 (Min of Health Armenian SSR. Yerevan State Med Inst). (KL, 1-61, 207)

-375-

LESHCHINSKIY, A.F.; DONDUA, E.G.; DEMIDAS, V.V.

Oxyhemometry in thyrotoxicoses and treatment with radioactive iodine.
Probl. endkok. i gorm. 6 no. 1:80-87 Ja-F '60; (MIRA 14:1)
(BLOOD--OXYGEN CONTENT) (HYPERTHYROIDISM)
(IODINE--ISOTOPES)

DUBOVYY, Ye. D., prof.; OKS, A. A., prof; BUCHINSKAYA, M. P.; VORONENKO, T. V.;
DEMIDAS, V. V.; FASTOVSKAYA, R. M. (Odessa)

Treatment of thyrotoxicosis with radioactive iodine. Probl. endok.
i gorm. no.6:50-56 '61. (MIRA 14:12)

1. Iz kafedry rentgenologii i radiologii (zav. - prof. Ye. D. Dubovyy)
i kafedry fakul'tetskoy u gospi'tal'noy terapii (zav. - prof. A. A. Oks)
Odesskogo meditsinskogo instituta (dir. - zasluzhennyy deyatel' nauki
prof. I. Ya. Deyneka)

(IODINE--ISOTOPES)
(THYROID GLAND--DISEASES)

DEMIDAS, V.V. (Odessa, V-47, ul. Pastern, d. 11, kv. 9) ; RUBAN, S.I.

X-ray diagnosis of the perforation of a hydatid cyst of the lungs.
Klin.khir. no.7:15-21 J1 '62. (MIRA 15:9)

1. Kafedra obshchey khirurgii (zav. - prof. I.Ya.Deyneka)
pediatricheskogo i stomatologicheskogo fakul'teta i kafedra rentge-
nologii i radiologii (zav. - prof. Ye.D.Dubovyy) Odesskogo medi-
tsinskogo instituta.

(LUNGS--HYDATIDS) (DIAGNOSIS, RADIOSCOPIG)

DEMIDAN, V.V.; VOROMENKO, T.V.

1963: radiotherapy following surgical treatment of thyrotoxicosis.
Med. rad. 10 no.7:41-46 JI '65. (MIRA 18:9)

1. Kafedra rentgenologii i radiologii (zav. - prof. Ye.D.Dubovyy)
Odeskogo meditsinskogo instituta imeni N.I.Pirogova.

DEMIDASYUK, I.

Transmitter for a beginner shortwave radio amateur. Radio no.3:
33-36 Mr '60. (MIRA 13:6)
(Radio, Shortwave--Transmitters and transmission)

DEMIDASYUK, I.

Radio transmitter for competitions in the broadcast band.

Radio no.9:19-22 S '64.

(MIRA 17:12)

DEMIDCHIK, V.P.; LOSKUTOV, V.V.; CHEDIYA, O.K.

Time of the formations of the Yashil'-Kul' Lake in the Pamirs.
Sbor. trud. Tadzh. fil. Geog. ob-va SSSR no.2:9-18 '61.

(MIRA 14:11)

(Yashil'-Kul' Lake)

MURASHOV, Yu.N. : DEMIDCHIK, Ye.P.

Double penetrating wound of the right heart ventricle. Zdrav.
Belor. 5 no.6:68-69 Je '59. (MIRA 12:9)

1. Iz khirurgicheskogo otdeleniya Mogilevskoy oblastnoy bol'-
nitzy (glavnyy vrach - zasluzhennyy vrach BSSR S.T.II'in).
(HEART--WOUNDS AND INJURIES)

~~DEMIDCHIK, Yevgeny~~

Our experience in treating terminal conditions. Zdrav. Bel. 6 no.11:
58-60 N '60. (MIRA 13:12)

1. Iz khirurgicheskogo otdeleniya (zaveduyushchiy Yu.N.Marashov)
Mogilevskoy oblastnoy bol'nitsy (glavnyy vrach S.T. Il'in).
(RESUSCITATION).

GAIN, M.I.; DEMIDCHIK, Ye.P.

Prolonged intravenous thiopental and alcohol anesthesia combined with local novocaine anesthesia. Zdrav. Bel. 9 no.7:
68-70 JI*63 (MIRA 17:4)

1. Iz khirurgicheskogo otdeleniya (zav. - Yu. N. Murashov)
Mogilevskoy oblastnoy bol'nitsy (glavnyy vrach - zasluzhennyy
vrach BSSR S.T.II'in).

JASINSKI, Wladyslaw; DEMIDECKI, Andrzej; GWIAZDOWSKI, Bohdan

A technic of teletherapy with cobalt-60. Polski przegl. radiol. 25
no.4:363-384 '61.

1. Z Zakladu Izotopowego i Zakladu Fizyki Instytutu Onkologii w W
Warszawie Dyrektor Instytutu: prof. dr. J. Laskowski Kierownik Zakladu
Izotopowego: prof. dr W. Jasinski Kierownik Zakladu Fizyki: mgr inz.
J. Malesa.

(COBALT radioactive)

DE MINISTRATO, CL-1

1

Theory of F-centers in mixed crystals. M. P. Debye, Ch. J. Benoit, and Yu. V. Chubrikov. *Phys. Zash. (USSR)* 2, No. 9, p. 911, 1963.

Calculation was carried out for KCl crystals which contained some RbCl or NaCl. A model was considered in which in the host crystal, in close vicinity to the F-center position, had been replaced by these impurities ions. The energy of the ground state and of the excited states of the F-center was calculated. The results are compared with the experimental data. The results of the numerical computation indicate the possibility of an anomalous shift of the F-band max. If RbCl or NaCl is present in the F-band max. of KCl does not shift towards the blue but RbCl or NaCl, but rather in the opposite direction. This agrees with findings by Gnani (CA 47, 1441, 1957).

1/82

DEMIDENKO, A.A. [Demidenko, O.A.]; DEMIDENKO, Z.A. [Demidenko, Z.O.];
TOLPYGO, K.B. [Tolpyho, K.B.]

Heat capacity and natural frequencies and amplitudes of KBr.
Ukr. fiz. zhur. 3 no.6:728-742 N-D '58. (MIRA 12:6)

1. Institut fiziki AN USSR,
(Potassium bromide crystals—Vibration);
(Heat capacity),

DEMIDENKO, A.A.

Microtheory of the Frenkel exciton with and without allowing for
lagging. *Fiz.tver.tela* 3 no.4:1195-1210 Ap '61. (MIRA 14:4)

1. Institut fiziki AN USSR, Kiyev.
(Excitons) (Crystal lattices)

8/181/63/005/002/016/051
B104/B186

Theory of scattering of...

where

$$\begin{aligned} V(r, \mathbf{a}, R) &= -\frac{e^2}{m} \sum_{\alpha} (J_{\alpha} A(R_{\alpha})), \\ V'(a, R) &= \sum_{\alpha} S_{\alpha} A'(R_{\alpha}), \end{aligned} \quad (2).$$

$V(r, R)$ is the potential energy of the Coulomb interaction of the crystal particles, J_{α} is the total momentum operator of the electrons of the molecule α , S_{α} is the number of α -type molecules, $A(r_1)$ is the vector potential, and R_{α} describes the small displacements of the molecules from their equilibrium positions. If the energy of the outgoing photo-exciton is considerably greater than the energy of the phonons, then the only terms from (4) to contribute to the scattering are the following: terms of the type $\beta^2 \xi$ (ξ is the phonon operator); terms of the type $\beta a \xi$; and terms of the type $a^2 \xi$. These terms, resulting from extensive calculations, are used to derive an expression for the probability of a photo-exciton being

Card 2/3

Theory of scattering of...

S/181/63/005/002/016/051
B104/B186

scattered with emission (absorption) of an acoustic phonon. The result shows that scattering from acoustic phonons dominates at low temperatures. There is 1 figure.

ASSOCIATION: Institut poluprovodnikov AS USSR, Kiev (Institute of Semiconductors AS USSR, Kiev)

SUBMITTED: August 20, 1962

Card 2/3

DEMIDENKO, A.A.

Calculating the probability of photoexciton scattering on
photons. Fiz. tver. tela 5 no.10:2835-2846 O '63. (MIRA 16:11)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

YAKOVLEV, L.G.; GRISHUNIN, G.D., inzh., retsenzent; DEMIDENKO, A.A.,
inzh., red.

[Level indicators; their design and use] Urovnemery; konstruktsii,
raschet, primeneniye. Moskva, Izd-vo "Mashinostroenie," 1964.
190 p.
(MIRA 17:8)

L 6702-65 EWA(l)/EWT(l)/EEC(k)-2/K/T/EEC(b)-2/ENP(k)/EWA(m)-2 PF-l/Pi-l/Pl-l/
Po-l IJP(c)/RAEM(l)/ISD/AS(wp)-2/ESD(ga)/RAEM(t)/ESD(c)
ACCESSION NR: AP4044952 S/0181/64/006/009/2771/2779

AUTHORS: Demidenko, A. N.; Pekar, B. I.

TITLE: Reflection and transparency coefficients of a crystal slab in the region of exciton absorption of light

SOURCE: Fizika tverdogo tela, v. 6, no. 9, 1964, 2771-2779

TOPIC TERMS: light absorption, reflection coefficient, transmission coefficient, exciton absorption, cubic crystal

ABSTRACT: One of the authors (Pekar, ZhETF v. 34, 1176, 1958) studied the transparency of a plane-parallel crystal slab with allowance for the supplementary light waves arising in the slab, but was unable to calculate the absolute values of the true reflection coefficient. This has now become possible following the calculation by the second author (Demidenko, FTT v. 5, 489 and 2,835, 1963) of photon scattering by lattice vibrations in a crystal. In the present paper, the

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L 6702-65

ACCESSION NR: AP4044952

2

authors calculate theoretically the true and imaginary parts of the refractive indices of the ordinary and supplementary light waves in the crystal, in the vicinity of the exciton light absorption. The coefficients of reflection, transmission, and true absorption of light in a plane-parallel slab are calculated. The case of a cubic crystal is examined in detail. The general formulas derived are illustrated with several numerical examples and are represented in the form of graphs. All the numerical calculations were made on the small "Promin" computer of the Institute of Cybernetics, AN UkrSSR. Orig. art. has: 6 figures and 19 formulas.

ASSOCIATION: Institut poluprovodnikov AN UkrSSR, Kiev (Institute of Semiconductors, AN UkrSSR)

SUBMITTED: 13Apr64

ENCL: 00

SUB CODE: OP. 33

NR REF SOV: 013

OTHER: 004

Cord 2/2

L 14842-65 EWT(1)/T I/P(c)/APWL/SSD/ESD(gg)

ACCESSION NR: AP4048407

S/0181/64/006/011/3321/3330

AUTHORS: Damidenko, A. A.; Tolpy*go, K. B.

TITLE: Role of long-range forces in the scattering of electrons of a homopolar crystal by phonons

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3321-3330

TOPIC TAGS: silicon, germanium, electron phonon scattering, homopolar crystal

ABSTRACT: An earlier treatment by one of the authors (Tolpy*go, FTT v. 4, 1765, 1962) is modified to take into account the effect of redistribution of the electron charge on the scattering of conduction electrons of a homopolar crystal by acoustic and optical phonons. Allowance for the electron redistribution is particularly important in the case of intervalley scattering, where the phonon wavelength is too short to be treated by the macroscopic electron-

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ACCESSION NR: AP4048407

phonon interaction theory, and both homogeneous and inhomogeneous deformation of the lattice must be taken into account. The mobility in Ge and Si is calculated with allowance for the effective-mass anisotropy under the assumption that there is no other scattering mechanism. The calculated mobility is found to be several times larger than the observed value and to vary with the temperature like $T^{-1.64}$ and $T^{-1.56}$. The value of the intervalley scattering is estimated for the interaction with the dipole moments of the short-wave phonons, and the deformation potential is estimated. It is concluded that although the polarization of the atoms and the resultant interaction between the carriers and the phonons is not the dominating factor, it does have a strong effect on the scattering, and plays the same role in silicon as the potential of uniform deformation. Orig. art. has: 36 formulas and 4 tables.

ASSOCIATION: Institut poluprovodnikov AN UkrSSR, Kiev (Institute

Card 2/3

L 11842-65

ACCESSION NR: A24048407

of Semiconductors AN USSR

SUBMITTED: 14Feb64

ENCL: 00

SUB CODE: SS

NR REF SOV: 012

OTHER: 005

Card 3/3

L 22128-66 EWT(1)/T/EWA(h) IJP(o) AT
ACC NR: AP6004929

SOURCE CODE: UR/0056/66/050/001/0124/0130

AUTHOR: Demidenko, A. A.; Pekar, E. I.; Piskovoy, V. N.; Tsekvava, B. Ye. 72/13

ORG: Institute of Semiconductors, Academy of Sciences, Ukrainian SSR (Institut poluprovodnikov Akademii nauk Ukrainskoy SSR)

TITLE: Current-voltage characteristic of a semiconductor with an electron-phonon coupling proportional to the applied field

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 124-130

TOPIC TAGS: volt ampere characteristic, phonon interaction, electron interaction, semiconductor conductivity, dielectric constant, ultrasonic wave, kinetic equation, current carrier, electric field

ABSTRACT: This is a continuation of earlier work by one of the authors (Pekar, ZhETF v. 49, 621, 1965), where an electron-phonon coupling was introduced, arising in an applied electric field as a result of the dependence of the dielectric constant on the deformation of the medium. In the earlier article this interaction was treated in connection with the amplification and generation of ultrasonic waves in a crystal. In the present paper it is treated as a carrier-scattering mechanism, and is used together with the deformation potential and other scattering mechanisms

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L 22128-66

ACC NR: AP6004929

to calculate the carrier mobility. This new interaction is also used to solve the kinetic equation. It is shown that the conventional scattering mechanisms predominate in external fields, and give rise to Ohm's law, but in crystals with a very large dielectric constant the electron-phonon coupling becomes predominant and this explains why the current in the semiconductor passes through a maximum with increasing field and then decreases. Numerical calculations are presented for the case when the dielectric constant is of the order of 2500 and 20,000, where the maximum of the field occurs at approximately 10^5 v/cm. The limitations inherent in this method are briefly discussed. Orig. art. has: 1 figure and 24 formulas.

SUB CODE: 20/ SUBM DATE: 12Jun65/ ORIG REF: 004/ OTH REF: 002

Card 2/2

BK

DEMIDENKO, A.B., inzh.

Effect of butt joints on the inductance of the rail circuit.

Trudy DIT no,29:67-73 '59.

(MIRA 13:5)

(Electric railroads--Rails)

FRISHMAN, M.A., prof. (Dnepropetrovsk); DEMIDENKO, A.B., inzh. (Dnepropetrovsk)

Corrosion of the reinforcement and strength of ties. Put' i put'khoz.
8 no.8:8-10 '64. (MIRA 17:9)

DEMIDENKO, A.B., inzh.

Effect of leakage currents in track circuits on the corrosion of
reinforced concrete ties. Sbor. trud. DIIT no 39:76-88 '63.
(MIRA 18:4)

SHAMIS, D.L.; BAYAKHUNOV, Ya.K.; POPENKO, A.K.; IL'INA, K.A.; DEMIDENKO, A.F.

Role of micro-organisms in raising the nutritive value of
millet. Trudy Inst. mikrobiol. i virus. AM Kazakh. SSR 7:
16-21 '63 (MIRA 16:12)

ACC NR: AP6017975

SOURCE CODE: UR/0413/66/000/010/0079/0079

INVENTORS: Yenal'yov, V. D.; Domidenko, A. G.

ORG: none

TITLE: A method for obtaining granular polymers. Class 39, No. 181807 [announced by Ukrainian Scientific Research Institute of Plastics (Ukrainskiy nauchno-issledovatel'skiy institut plasticheskikh mass)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 79

TOPIC TAGS: polymer, polycondensation, plastic, formaldehyde, phenol, alumosilicate, silica gel

ABSTRACT: This Author Certificate presents a method for obtaining granular polymers. The method involves suspensional polycondensation of one or several mixed polar substances that enter the polycondensation reaction and form oil-insoluble products, such as phenolsulfo acids and formaldehyde, in a nonpolar dispersing medium. To strengthen the stability of the emulsion, structuring substances are added to the dispersing medium. These substances possess hydrophylic-hydrophobic properties or are capable of assuming hydrophylic-hydrophobic properties due to an addition of hydrophobizing or hydrophylicizing addenda, for instance alumosilicates, silica gel or organic salts of heavy metals.

SUB CODE: 11/ SUBM DATE: 14Jan63

Cord 1/1

UDC: 678.6.034

L 34855-65 EWT(m)/EPF(a)/EMP(j) Pc-4/Pr-4 RM
ACCESSION NR: AP5008533

S/0286/65/000/006/0036/0036

AUTHOR: Demidenko, A. G.; Mironenko, N. I.

TITLE: A grease for protecting the interior surface of a reaction vessel for block polystyrene and copolymers based on block polystyrene. Class 23, No. 169163

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 6, 1965, 36

TOPIC TAGS: grease, protective coating

ABSTRACT: This Author's Certificate introduces a grease for protecting the interior surface of a reaction vessel for block polystyrene and copolymers based on block polystyrene. A wider selection is provided and the adhesion properties of the grease are improved by adding calcium, zinc or magnesium stearate and butyl stearate.

ASSOCIATION: none

SUBMITTED: 19Jan63

ENCL: 00

SUB CODE: FP

NO REF SOV: 000

OTHER: 000

Card 1/1

L 44588-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6015664 (A) SOURCE CODE: UR/0413/66/000/009/0074/0074

36
B

INVENTOR: Demidenko, A. G.; Mironenko, N. I.

ORG: none

TITLE: Method of obtaining low-molecular vinyl polymers. Class 39, No. 181284/5
[announced by Ukrainian Scientific Research Institute of Plastics (Ukrainskiy nauchno-
issledovatel' skiy institut plasticheskikh mass)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966,
74

TOPIC TAGS: polymer, vinyl polymer, monomer, vinyl monomer, polymerization
catalyst

ABSTRACT: An Author Certificate has been issued for a method of obtaining low-
molecular vinyl polymers by bulk polymerization of vinyl monomers during heating
in the presence of an aluminosilicate catalyst. To increase the polymer yield, a
sodium mold of montmorillonite clays, treated in a water medium by the interaction

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UDC: 678, 74, 044

L 44588-66

ACC NR: AP6015664

of organohalosilanes or halosilanes with an excess of methyl or ethyl alcohol, is
used as the aluminosilicate catalyst. [Translation] [NT]

SUB CODE: 11/ SUBM DATE: 04Jun65/

Card 2/2 *lgm*

08530-67 EWP(m)/EWP(j) RM

ACC NR: AP6035675

SOURCE CODE: UR/0413/66/000/019/0018/0018

INVENTOR: Demidenko, A. G.; Mironenko, N. I.

ORG: none

TITLE: Montmorillonite clay-based catalyst. Class 12, No. 186394 [announced by Ukrainian Scientific Research Institute of Plastics (Ukrainskiy nauchno-issledovatel'skiy institut plastmass)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 18

TOPIC TAGS: ~~montmorillonite~~ clay, polymerization catalyst, vinyl compound

ABSTRACT: An Author Certificate has been issued for a method of preparing selective and highly reactive montmorillonite clay-based catalysts for the polymerization of vinyl compounds. The method involves treatment of sodium montmorillonite clays with the reaction product of an organohalosilane or halosilane [both unspecified] with an excess of methyl or ethyl alcohol. The clay and the silane can be used in a 10/1 to 1/10 ratio.

SUB CODE: 11, 07/ SUBM DATE: 04Jun65/ ATD PRESS: 5103

Card 1/1

UDC: 66.095.264.3

DEMIDENKO, B. A.

Derid, T. P. and Demidenko, B. A. Selection of Refractories for Vogres Steam Boilers Fired With Coal Dust. Ogneupory, 8 (8-9) 431-36 (1940).--Refractory linings of Vogres steam boilers must possess high thermal stability, high resistance to slag, and resistance to the effects of flying ashes and gases. Refractories with a high grog content and kaolin products were found most suitable.

1ST AND 2ND COLUMNS		PROCESS AND PROPERTIES INDEX		1ST AND 2ND COLUMNS	
<p>4616. NEW TUNNEL KILN FOR FIRING BRICKS USING NATURAL GAS FROM DASHKOV DEPOSIT, Shatni, I. S. and Demidenko, B. A. (Stek. Keram., 1948, vol. 8, (2), 17). The kiln is 75 m. long, 3 m. wide and 1.7 m. high. It is heated in the firing zone by 28 burners, burning a mixture of natural gas and flue-gas from the pre-heating zone. The firing temperature is 1,000°C.</p> <p style="text-align: right;">B.C.R.A.</p>					
<p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>					
1ST AND 2ND COLUMNS		3RD AND 4TH COLUMNS		5TH AND 6TH COLUMNS	
1ST AND 2ND COLUMNS		3RD AND 4TH COLUMNS		5TH AND 6TH COLUMNS	

DEMIDENKO, B.G., kand. sel'skokhozyaystvennykh nauk

Biology of blooming and the development of sorgo hybrids. Dokl.
Akad. sel'khoz. 24 no.5:21-25 '59. (MIRA 12:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy. Predstavleno
akademikom N.A. Maysuryanom.
(Sorghum)

DEMIDENKO, B.G., kand.sel'skokhoz.nauk

Work results on the hybridization of sorgho. Agrobiologiya
no. 3:409-418 My-Je '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kukuruzy,
Inepetrovsk.

DEMIDENKO, B. M.

Analytic determination of the wear of elements of a brake pair.
Avt. prom. 29 no.5:15-18 My '63. (MIRA 16:4)

1. Armavirskaya avtomobil'naya shkola.

(Automobiles—Brakes)

DEMIDENKO, D. I.

PA 167T58

USSR/Medicine - Paratyphoid
Immunization

Feb 50

"Test of Immunizing Cows to Protect Calves From
Paratyphoid," D. I. Demidenko, Dr Vet Med

"Veterinariya" No 2, p 25

Discusses tests conducted in 1946 using three-
step vaccination by formol vaccine starting
when cow is in seventh month of calving. First
dose is 6-8 ml; second (2 weeks later) is 10-12
ml; and third (after 2 more weeks) is 13-15 ml.
In tests on 630 cows, no cases of paratyphoid.

167T58

USSR/Medicine - Paratyphoid (Contd) Feb. 50

were found in the calves. System is used in
plan of antiepidemiologic measures for all farms
served by author's group.

167T58

DEMIDENKO, G.B.

~~Peculiarities of perennial grass cultivation in Orlov Province.~~
Zemledelie 6 no.3:42-47 Nr '58. (MIRA 11:4)

1. Kuybyshevskiy sel'skokhozyaystvennyy institut.
(Volga Valley--Wheat)

~~DEMIDENKO, Grigoriy Borisovich; SLEPTSOVA, K., red.; SAPALOVSKIY, A.,~~
~~red.; MEYTOV, V., tekhn.red.~~

[Forage crops of Orlov Province] Kormovye kul'tury v Orlovskoi
oblasti. Orel, Orlovskoe knizhnoe izd-vo, 1960. 161 p.
(MIRA 14:3)

(Orlov Province--Forage plants)

DEMIDENKO, O.I.

Valve equipped feeding bottle for calves. Veterinaria 34 no.2:
69 P '57. (MLRA 10:11)

1. Starshiy veterinarnyy vrach Upravleniya veterinarii Ministerstva
sel'skogo khozyaystva Moldavskoy SSR.
(Calves--Feeding and feeding stuffs)

KALASHNIKOV, N.P., vetvrach; DEMIDENKO, G.I., vetvrach

Experience in improving veterinary hygiene on the farm. Veteri-
nariia 36 no.3:60-62 Mr '59. (MIRA 12:4)

1. Plemennoy sovkhos "Borskaya ferma," Gor'kovskoy oblasti (for
Kalashnikov). 2. Veterinarnaya inspektsiya Ministerstva sel'skogo
khozyaystva Moldavskoy SSR (for Demidenko).
(Veterinary hygiene)

DEMIDENKO, G.T.

Investigation of saturated molasses of sugar factories. Sakh.
prom. 35 no.12:31-33 D '61. (MIRA 15:1)

1. Krasnodarskiy nauchno-issledovatel'skiy institut polimerizatsionnykh plastmass.
(Molasses--Analysis)

DEMIDENKO, I., inzhener.

Charts for testing airplane engines. Grashd. sv.13 no.3:24-25 Mr
'56. (Airplanes--Engines--Testing) (MIRA 9:7)

ACCESSION NR: AP4041684

8/0153/64/007/002/0307/0312

AUTHOR: Kolobenin, V. N.; Utlenko, Ye. V.; Demidenko, I. A.; Blokh, G. A.

TITLE: The use of carbon black in cable resins.

SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 2, 1964, 307-312

TOPIC TAGS: carbon black, cable resin, filler, thermal aging resistance, channel black, lamp black, furnace black, thermal black, thermal oxidation, tensile strength, elongation, physical mechanical property, insulating type resin, electrical insulating property, volatility, stability

ABSTRACT: A study was made of the effect of different types of carbon blacks and their combinations on the thermal aging resistance of hose and cable resins. Lamp, channel, furnace and thermal carbon blacks and combinations of 60 parts lamp, furnace or thermal black with 40 parts channel black were tested in a recipe ShVP-50 (in %: NK-35.0; SKIM-50R-15; S-1.0; Captax- 0.35; ZnO-2.5; furnace black-21.95; channel black-14.70; stearin-2.5; Neozone "D"-0.5, rosin-1.5; paraffin-5.0). Vulcanization was at 143C; resistance to thermal oxidation at 85, 100 and 110C was

Card

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